












Dell.com/wireless

Guest access/BYOD, management and VPN

Controller-Based Wireless Access Points and Instant Access Points											
The Dell W-Series controller-based ecosystem is ideal for organizations that seek maximum security, functionality and centralized management features. This architecture can enforce policies and security from one console and meets stringent government and military encryption certifications. Controller-based ecosystems can also serve as a termination point for your VPN. Dell W-Series Instant Access Points (IAPs) combine enterprise capabilities with entry-level simplicity. These intelligent 802.11n devices have a built-in virtual controller and firewall, and require no additional licenses. IAPs can be setup in minutes: simply configure the first device and the other IAPs automatically form a unified cluster. You can add more capacity by simply plugging in more IAPs. The devices can even migrate to a controller-based ecosystem if you ever decide to expand to a centralized wireless network. The IAP portfolio offers several wired and wireless IAPs that are ideal for remote APs for teleworker and branches. Easily deploy, configure and grow your network with Dell.											
											
Models		W-AP224 and W-AP225	W-IAP 155 and W-IAP 155P	W-AP134 and W-AP135 W-IAP134 and W-IAP135	W-IAP108 and W-IAP109 (Remote IAPs)	W-AP175AC, W-AP175P, and W-AP175DC W-IAP175AC and W-IAP175P	W-AP104 and W-AP105 W-IAP104 and W-IAP105	W-AP92 and W-AP93 W-IAP92 and W-IAP93	W-AP93H+	W-IAP3WN and W-IAP3WNP	
Description		Purpose-built 220 series wireless access points (APs) deliver gigabit speeds to most number of mobile devices in conjunction with unique ClientMatch technology ensuring predictable Wi-Fi performance for the entire network	High-performance wireless and wired networking for SMBs, branch offices and teleworkers	High-performance capacity and very high density and ideal for use with 3x3 client devices with dual radio, dual band functionality (3x3 MIMO with three streams)	High-performance wireless and wired networking for SMBs, branch offices and teleworkers	Ruggedized and weatherproof for outdoor, warehouses and harsh environments. (2x2 MIMO with two streams)	Mainstream capacity for high density with dual radio, dual band functionality. (2x2 MIMO with two streams)	Entry-level, single radio access point with dual band functionality. (2x2 MIMO with two streams)	Access point with four additional Ethernet ports, providing wired and wireless connections in one device.(2x2 MIMO with two streams)	Desktop AP with additional Ethernet ports to create a small LAN or connect PoE devices. Ideal for remote offices/teleworkers needing VPN capability.(2x2 MIMO with two streams)	
Data rate		802.11b: 1, 2, 5.5, 11 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 802.11n: 6.5 to 450 (MCS0 to MCS15) 802.11ac: 6.5 to 1,300 (MCS0 to MCS9, NSS = 1 to 3)	802.11b: 1, 2, 5.5, 11 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 802.11n (2.4GHz): 6.5 to 300 (MCS0 to MCS15) 802.11n (5GHz): 6.5 to 450 (MCS0 to MCS23) 802.11n high-throughput (HT) support: HT20/40 802.11n packet aggregation: A-MPDU, A-MSDU	900Mbps (450Mbps each radio)	300Mbps	600Mbps (300Mbps each radio)	600Mbps (300Mbps each radio)	300Mbps	300Mbps	300Mbps	
Radios		Dual radio, 5GHz 802.11ac and 2.4GHz 802.11n indoor	Dual radio, dual-band 802.11n indoor	Dual radios: Simultaneous operation in 2.4 and 5GHz band. (Concurrent operation of both radios in the same band is not supported.)	Dual-radio, dual-band 802.11n indoor	Dual radios: 2.4 and 5GHz band	Dual radios: 2.4 and 5GHz band	Single radio: 2.4 or 5GHz band	Single radio: 2.4 or 5GHz band	Single radio: 2.4 or 5GHz band	
Operating modes		APs operate in the following modes without the need for additional hardware: Campus, Remote, Mesh, Air Monitor or Spectrum Analysis mode									
Spectrum analysis		Remotely scans the 2.4 and 5GHz radio bands to identify sources of RF interference. Monitors 4.9GHz frequency band when in dedicated AM mode. Analysis requires controller with ArubaOS 6.0 or higher.								Not available	Not available
Certification		CB Scheme Safety, cTUVus Wi-Fi Alliance (WFA) certified 802.11a/b/g/n/ac 2	CB Scheme Safety, cTUVus Wi-Fi certified 802.11a/b/g/n	802.11 a/b/g/n certified. Includes TAA/FIPS certification for government use. (Except W-AP93H)							
Operating frequencies		2.4000 to 2.4835GHz 5.150 to 5.250GHz 5.250 to 5.350GHz 5.470 to 5.725GHz 5.725 to 5.850GHz	2.400 to 2.4835GHz 5.150 to 5.250GHz 5.250 to 5.350GHz 5.470 to 5.725GHz 5.725 to 5.850GHz	2.4 to 2.5GHz, 5.150 to 5.950GHz with DFS support.	(Country-specific restrictions apply): 2.4 to 2.4835GHz, 5.150 to 5.875GHz			2.4-2.5 GHz	2.4-2.5 GHz	2.4-2.5 GHz	
Number of SSIDs per radio				Up to 8	16	Up to 8	Up to 8	Up to 8	Up to 8	Up to 8	
Minimum software revision				6.1.1.0	W-AP104: 6.1.3.0, W-AP105: 5.0.2.1	5.0.2.1	W-AP104: 6.1.3.0, W-AP105: 5.0.2.1	5.0.4.2	6.1.3.0		
RF management		Adaptive Radio Management (ARM) provides dynamic, application-aware channel management to maximize network capacity and ensure fairness in bandwidth availability per user.									
Antennas		AP-224: Three RP-SMA connectors for external dual-band antennas AP-225: Six integrated down-tilt omni-directional antennas for 3x3 MIMO with maximum antenna gain of 3.5dBi in 2.4GHz and 4.5dBi in 5GHz Built-in antennas are optimized for horizontal ceiling mounted orientation of AP-225	2.4GHz: Two internal omni-directional antennas for 2x2 MIMO with maximum antenna gain of 5.5dBi 5GHz: Three internal omni-directional antennas for 3x3 MIMO with maximum antenna gain of 5.0dBi Antennas are optimized for vertical orientation of the device	W-AP134: three RP-SMA for external dual-band antennas W-AP135: six internal omni-directional, dual-band	RAP-108: Two RP-SMA connectors for external dual-band antennas RAP-109: Four integrated omni-directional antennas for 2x2 MIMO with maximum antenna gain of 5.0 dBi in both 2.4 and 5 GHz. Built-in antennas are optimized for vertical orientation	Four N-type interfaces (two per band) for external 2.4 and 5GHz antennas	W-AP104: four RP-SMA for external 2.4 and 5GHz antennas W-AP105: four internal omni-directional, dual-band	W-AP92: two RP-SMA for external dual-band antennas W-AP93 two internal omni-directional, dual-band	Two internal omni-directional, dual-band antennas	Both models have two internal omni-directional, dual-band antennas.	
Network interfaces		Two 10/100/1000BaseT Ethernet network interfaces (RJ-45)/Auto-sensing link speed and MDI/MDX Load balancing statement TBD MACSec encryption and 802.3az EEE	ENET0 (uplink): One 10/100/1000Base-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX ENET1-4 (local): Four 10/100/1000Base-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX ENET1 and ENET2 capable of sourcing POE power	Two 100/1000Base-T Ethernet Auto-sensing MDI/MDX Supports MACSec Encryption, 802.3az	ENET0 (uplink): One 10/100/1000Base-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX ENET1 (local): One 10/100Base-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX	One 100/1000Base-T Ethernet, auto-sensing MDI/MDX	One 10/100/1000Base-T Ethernet, Auto-sensing MDI/MDX	One 10/100/1000Base-T Ethernet, auto-sensing MDI/MDX	One 10/100/100/1000Base-T Ethernet, auto-sensing MDI/MDX, Four 10/100Base-T, and One passive RJ-45 pass-through interface (2 ports)	Three RJ45 ports 10/100Base-T Ethernet, Auto-sensing MDI/MDX and one USB port for connecting a cellular modem	
Other interfaces		DC power interface, accepts 1.7/4.0mm center-positive circular plug with 9.5mm length USB 2.0 port (Type A connector) Serial console interface (RJ45, TTL levels)	DC power interface: -12V DC +/- 5%	Console interface (RJ45)	One USB 2.0 port (Type A connector) One serial console interface (RJ-45)	Console interface (USB)	Console interface (RJ45)	Console interface (RJ45)	Console interface (RJ45)	Console interface (custom)	
Power over Ethernet (PoE) interfaces		POE-PD: 48V DC 802.3af POE or 802.3at POE+	802.3af or 802.3at power sourcing support (PSE) provided on two local Ethernet ports (ENET1, 2) Device capable of supplying 1x full 802.3at power or 2x full 802.3af power	48V DC 802.3af or 802.3at or PoE+ interoperable with intellisource PSE sourcing intelligence (both ports)	802.3af (PoE) or 802.3at (PoE+) on uplink Ethernet port Note: When using PoE, the USB port will be enabled only when an 802.3at-compliant source is used	W-AP175P: 802.3at-compatible PoE input (PD) W-AP175AC and W-AP175DC: 802.3af compatible PoE output (PSE)	W-AP175P: 802.3at-compatible PoE input (PD) W-AP175AC and W-AP175DC: 802.3af compatible PoE output (PSE)	48V DC 802.3af-compatible	48V DC 802.3af-compatible	W-IAP3WN: 802.3af PoE (15.4W) on the E2 port	
Power interfaces		Direct DC source: 12V DC nominal, +/- 5% Power over Ethernet (POE): 48V DC (nominal) 802.3af or 802.3at compliant source	W-IAP155: 12V DC from external AC-to-DC power adapter W-IAP155P: 54V DC from external AC-to-DC power adapter	12V DC, 1.25A	One port for DC power connector (DC Input from AC power adapter or POE only)	12–48V DC or 100–240V AC	48V DC 802.3af-compatible	12V DC, 1.25A	12V DC, 1.25A	W-IAP3WN: 12V DC, 1.25A W-IAP3WNP: 48V DC, 0.75A W-IAP3WN: 100–240V, 0.5A W-IAP3WNP: 100–240V, 0.75A	
Power consumption		15W, plus up to 2.5W for attached USB device	Without USB device connected: 17.5W With USB device: 20W When sourcing POE power (W-IAP155P only),total power consumption may increase by up to 34W	15 Watts (maximum)	Without USB device connected: 12.5 Watts With USB device: 15 Watts	18 Watts (maximum)	12V DC, 1.25A 12.5 Watts (maximum)	10 Watts (maximum)	9 Watts (maximum)	W-IAP3WN: 4 watts/6.5 watts W-IAP3WNP: 5.5, 8, or 26 watts	
Environmental	Class	Indoor	Indoor	Indoor, plenum-rated	Indoor	Outdoor	Indoor, plenum-rated	Indoor, plenum-rated	Indoor	Indoor	
	Operating temperature	Temperature: 0°C to 50°C (32°F to 122°F) Humidity: 5% to 95% non-condensing	Temperature: 0°C to +40°C (32°F to 104°F) Humidity: 5% to 95% non-condensing	0°C to 50°C (32°F to 122°F)	Temperature: 0° C to 40°C (32°F to 104°F) Humidity: 5% to 95% non-condensing	W-IAP175P: –30°C to +60°C (–22°F to +140°F) W-IAP175AC and W-IAP175DC: –40°C to +55°C (–40°F to 131°F)	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)	0°C to 40°C (32°F to 104°F)	0°C to +40°C (32°F to 104°F)	
Accessories		Wall mount brackets, ceiling tile rail adapters, AC power adapters and attachable antennas sold separately. (See-Dell PowerConnect W-Series Antenna Matrix)									
Hardware Warranty				Extended Lifetime Warranty	Extended Limited Lifetime	One year parts and labor	One year parts and labor	Extended Lifetime Warranty	Extended Lifetime Warranty	Extended Limited Lifetime	

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